

What Is Claimed Is:

1. A display device for a motor vehicle, comprising:  
a display housing for mounting on a vehicle dashboard;  
a display frame to accommodate a display, the display frame being rotatable about an axis of rotation with respect to the display housing;  
a driven element affixed on the display housing; and  
a drive device, affixed on the display frame, having an electric motor, a worm gear and a gear-output shaft for engaging with the driven element, the electric motor being arranged in a center region of the display frame, and the engagement of the gear-output shaft with the driven element being provided outside the axis of rotation.
2. The display device as recited in claim 1, wherein the worm gear has at least two steps, at least one of which is a worm-gear step.
3. The display device as recited in claim 1, wherein the worm gear has at least one first worm-gear step and a second worm-gear step downstream from the first worm-gear step.
4. The display device as recited in claim 3, wherein the second worm-gear step is connected to the first worm-gear step via an intermediate shaft extending perpendicularly to the axis of rotation.
5. The display device as recited in claim 1, wherein the axis of rotation extends through the display frame.
6. The display device as recited in claim 5, wherein the axis of rotation extends through the display.
7. The display device as recited in claim 1, wherein the

axis of rotation is offset with respect to a center line of the display.

8. The display device as recited in claim 1, wherein the electric motor is arranged essentially in the axis of rotation of the display frame.

9. The display device as recited in claim 1, wherein a gear-output shaft extends in parallel to the axis of rotation, extending at an offset thereto in a lateral direction.

10. The display device as recited in claim 1, wherein the driven element is a tooth segment affixed on the display housing so as to be adjustable, the tooth segment being adjustable between an engagement position for engaging with a drive pinion of the worm gear and a released position that is not engaged.

11. The display device as recited in claim 10, wherein the tooth segment has a convex toothing region.

12. The display device as recited in claim 10, wherein the tooth segment is prestressed to the engagement position.

13. The display device as recited in claim 12, wherein the tooth segment is adjustable in a longitudinal direction on the display frame.

14. The display device as recited in claim 13, wherein the tooth segment is adjustable via at least one slot-peg guidance.

15. A method for producing a display device, comprising:  
providing a display housing for mounting on a vehicle

dashboard;

providing a display frame to accommodate a display, the display frame being rotatable about an axis of rotation with respect to the display housing;

providing a driven element affixed on the display housing;

providing a drive device, affixed on the display frame, having an electric motor, a worm gear and a gear-output shaft for engaging with the driven element, the electric motor being arranged in a center region of the display frame, and the engagement of the gear-output shaft with the driven element being provided outside the axis of rotation; and

inserting the display into the display housing, the tooth segment engaging with the drive pinion with an initial tension.